

**METHOD FOR IMPROVING RF SPECTRUM EFFICIENCY
WITH REPEATER BACKHAULS**

ABSTRACT

5 A spectrally efficient wireless communication system that includes a plurality
of base stations communicating indirectly with a plurality of wireless
communications devices through a plurality of repeaters. The method can generally
comprise communicating indirectly between a first base station and a wireless
communication device using a first repeater and a first RF backhaul link. A control
processor associated with the first base station can control a first smart antenna
10 system. The system selectively configures the first smart antenna system to
spatially isolate communications on the first RF backhaul from communications on
a second RF backhaul of a second repeater.